

# AVERAGING DATA – RANGE MEAN MEDIAN MODE

## EVIDENCE NOTEBOOK

### KEY IDEAS

1. Define range:
  - a. What would be the range for this data set? 4, 7, 8, 6, 5
  
2. Define mode:
  - a. What is the mode of this data set? 8, 5, 6, 5, 7, 9
  
  - b. What is the mode of this data set? 8, 5, 6, 5, 7, 9, 7 How do you name a list like this?
  
  - c. What is the mode of this data set? 8, 5, 6, 5, 7, 9, 7, 8 How do you name a list like this?
  
3. Define mean:
  - a. Determine the mean for this data set: 8, 5, 6, 5, 7, 9
  
4. Define median:
  - a. What is the median for this data set? 9, 4, 5, 8, 11, 13, 6
  
  - b. What is the median for this data set? 8, 3, 5 (*take additional notes*)

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- c. What is the median for this data set? 7, 8, 3, 5 (*take additional notes*)
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5. A company employs five people. The four workers each earn \$40,000 a year while the manager earns \$100,000 a year.
    - a. Determine the mean salary
  
    - b. Determine the median salary
  
    - c. Should the mean or median be used to estimate the salary of employees? Why?
  
  6. Illustrate and label a graphical representation for the following circumstances:
    - a. Mean = Median
  
  
  
  
  
  
  
  
  
  
    - b. Median < Mean
  
  
  
  
  
  
  
  
  
  
    - c. Mean < Median

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### CHECKPOINTS

Determine the range, mean, medium, and mode for the following sets of data:

1. 10, 11, 5, 6, 7, 9, 7
2. 60, 72, 64, 52, 64, 61, 67, 57, 59, 65
3. 6, 8, 9, 4, 9, 7, 9, 5, 7, 8, 8, 3, 5, 6, 2
4. 102, 94, 113, 96, 98, 104, 111, 5, 102, 96

Identify which sets have **symmetric** or **skewed** data. Which sets are better represented with the **mean** or **median**? Which lists are **binomial** or **trinomial**?